

Host Plant Records of the Species of *Proterhinus* (Col.) in Hawaii

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There are 136 species and several varieties of the beetles of the Genus *Proterhinus* recorded in the Fauna Hawaiiensis. A few of them were described previously by Dr. Sharp (24) and Mr. Blackburn (6), but the original descriptions of by far the majority of them are by Dr. Perkins in Fauna Hawaiiensis, II, pp. 185-246, 1900; and III, pp. 656-666, 1910. Later descriptions by Dr. Perkins in various issues of the Proceedings of the Hawaiian Entomological Society total 21 species, bringing the grand total up to 157. Two species have been described from Nihoa, an outlying island of the Hawaiian group. Besides these, one species has been described from the Phoenix islands; one from Samoa; three from the Marquesas islands. These latter and the species from the Phoenix islands form a connecting link with the genus *Aglycyderes*, and, hence, Dr. Perkins considers that the family name Proterhinidae should be abandoned and our *Proterhinus* be placed in the family Aglycyderidae, an older family name.

In the Fauna Hawaiiensis, there are not many records of the host relations of the species of *Proterhinus*. No doubt Dr. Perkins was aware of more of the host relations than what were recorded. Since the collecting period of Dr. Perkins, not much collecting of *Proterhinus* was done for a time. Mr. Giffard collected very thoroughly the species occurring on Mt. Tantalus, Oahu, about 1904-1910, at the time when he maintained a mountain house on Mt. Tantalus. His material was not worked up, however, not being labelled with the host trees from which they were collected. When submitted to Dr. Perkins for determination, he declined on account of the lack of data as to host trees.

It was not till about 15 years ago that the writer began giving particular attention to collecting *Proterhinus* of whatever regions he was collecting in, and keeping careful records of host trees. During these recent years considerable additional data has been obtained, and it seems appropriate that this should be recorded.

Herewith are listed those species which have any record of their host trees or plants, together with hitherto unpublished records. The original descriptions are cited, localities where collected, and collectors given. For convenience of reference, the species are listed alphabetically. As will be seen, there is yet much research necessary to complete the knowledge of the host plants of this group of beetles.

Perhaps some of the records given may not indicate the true hosts as only a few specimens were collected on the trees mentioned, and they may have been stragglers. When a series of specimens has been actually reared from any particular tree, or collected from it exclusively, or in large numbers and on different occasions and places, then there is assurance of true host relations. It is apparent that some of the species are attached to a single kind of tree, yet there are quite a number which breed in several kinds of trees.

For the most part the larvae of the various species of *Proterhinus* live in dead twigs; some are in bark; a few are leafminers; at least one has been found in living stems.

The list includes 82 species and 13 varieties.

***Proterhinus abnormis* Perkins**

Perkins, Proc. Haw. Ent. Soc., IV, p. 352, 1920.

OAHU: Mt. Kaala, Sept., 1913, and July, 1916, 11 examples, leafminer in *Broussaisia arguta* (Swezey); Mt. Kaala, 1919, 1925, 1938, same plant (Swezey, Williams); Puu Kalena, 1929, same plant (Swezey).

***Proterhinus abundans* Perkins**

Perkins, Bishop Museum, Bull. 31, p. 65, 1926.

NIHOA: On *Euphorbia*, 1923 (Bryan).

***Proterhinus adelus* Perkins**

Perkins, Fauna Hawaiiensis, II, p. 202, 1900; F.H., III, p. 657, 1910.

OAHU: Throughout Koolau range (Perkins). (Specimens at Bishop Museum labelled *Kadua*); Kaumuahona, Feb. 25, 1928, on *Gouldia* (Swezey); Moanalua Valley, 1930, on *Coprosma*, Poamoha, 1933, on *Bobea*, Pauoa Flats, 1934, on *Gouldia*, Mt. Olympus, 1936, on *Cheirodendron*, Kaluanui, 1938, on *Gouldia* (Swezey).

***Proterhinus adelus* var. *chrysadelus* Perkins**

Perkins, Fauna Hawaiiensis, III, p. 658, 1910.

OAHU: Kaumuahona, 1928, on *Scaevola* (Swezey).

***Proterhinus alyxiae* Perkins**

Perkins, Fauna Hawaiiensis, II, p. 244, pl. IX, fig. 23, 1900.

MOLOKAI: 3000 ft.; LANAI. Taken from stems of *Alyxia olivaeformis* (Perkins).

***Proterhinus amaurodes* Perkins**

Perkins, Fauna Hawaiiensis, II, p. 190, 1900.

KAUAI: Mts., 2000-4000 ft. (Perkins); Kokee, Aug., 1925, one specimen on *Straussia maritima* (Swezey).

***Proterhinus angularis* Sharp**

Sharp, Trans. Ent. Soc. London, 1881, p. 530.

Perkins, Fauna Hawaiiensis, II, p. 243, 1900; III, p. 659, 1910.

OAHU: Mts. near Honolulu on *Straussia* (Perkins); Palolo, 1920, on *Straussia* (Bryan); Manoa, 1923, on *Straussia* (Swezey); many localities on *Straussia* (Swezey).

Proterhinus angustiformis Perkins

Perkins, Fauna Hawaiiensis, II, p. 197, 1900.

KAUAI: Halemanu (Perkins); Kokee, Aug., 1925, 26 specimens from *Coprosma waimeae* and 23 from *Alyxia olivaeformis* (Swezey).

Proterhinus angustiformis var.

KAUAI: Kokee, Aug., 1925, one specimen each on *Gouldia elongata* and *Suttonia sandwicensis* (Swezey).

Proterhinus anthracias Perkins

Perkins, Fauna Hawaiiensis, II, p. 185, 1900.

KAUAI: Widely distributed, 2500-4000 ft. (Perkins); Kokee, Aug. 1921, and Aug. 1925, numerous under bark of *Straussia maritima* (Swezey).

Proterhinus antiquus Perkins

Perkins, Fauna Hawaiiensis, II, p. 193, 1900.

KAUAI: Mts., 4000 ft., on various trees (Perkins); Kokee, Aug., 1925, one specimen on *Coprosma waimeae* (Swezey).

OAHU: Mt. Kaala, one example on *Broussaisia arguta* (Swezey).

Proterhinus archaeus Perkins

Perkins, Fauna Hawaiiensis, II, p. 209, 1900; F.H., III, p. 666, 1910.

OAHU: In both Mtn. ranges, under bark of *Straussia*, also on *Pelea* and other trees (Perkins); Kahana, 1928, Waikane, 1930, Haleauau, 1931, Waipio Ridge, 1932, Hauula, 1933, all on *Straussia* (Swezey).

Proterhinus asteliae Perkins

Perkins, Proc. Haw. Ent. Soc., IV, p. 351, 1920.

OAHU: Mt. Kaala, July, 1916, 14 examples on *Astelia vera-troides* (Swezey); Mt. Kaala, 1923, 1925, on *Astelia* (Swezey).

Proterhinus basalis Sharp

Sharp, Trans. Ent. Soc. London, 1879, p. 98.

Perkins, Fauna Hawaiiensis, II, p. 187, 1900.

KAUAI: Mts., 2000-4000 ft. (Perkins); Kokee, Aug., 1921, 25 specimens from *Scaevola chamissoniana*, and 7 more in Aug., 1925, single specimens on *Coprosma waimeae* and *Suttonia sandwicensis*, Aug., 1925 (Swezey).

Proterhinus binotatus Perkins

Perkins, Fauna Hawaiiensis, II, p. 191, 1900.

KAUAI: Mts., 4000 ft. (Perkins); Kokee, Aug., 1925, 28 specimens from dead twigs of "ohia ha" (*Syzygium sandwicense*) (Swezey).

Proterhinus blackburni Sharp

Sharp, Trans. Ent. Soc. London, 1878, p. 17.

Perkins, Fauna Hawaiiensis, II, p. 246, pl. X, fig. 5, 1900; F.H., III, p. 666, 1910.

On all the Islands. On ferns and many kinds of forest trees (Perkins); OAHU: Mt. Tantalus, bred from *Pipturus*

(Giffard) ; Mt. Olympus, 1920, on ohia ha (Swezey) ; Manoa, 1920, on ohia ha (Bridwell) ; Nuuanu, 1919, on *Euphorbia*, Pauoa, 1922, in bamboo, Mt. Tantalus, 1926, on *Pelea*, 1930, on *Perrottetia*, Arboretum trail, Manoa, 1926, on *Bobea*, Waimano, 1926, in dead stem of *Cibotium* frond, Kaumuahona, 1928, *Cibotium*, Pauoa Flats, 1935, ex *Wikstroemia* (Swezey) ; Mt. Kaala, 1929, Haleauau, 1929, 1930, Palolo, 1935, in *Cibotium chamissoi*, Kukuiala, 1936, on *Gouldia* (Swezey).

MOLOKAI: Puu Kolekole, 1929, in *Cibotium chamissoi* (Swezey).

Proterhinus blackburni var. **hystrix** Sharp

Sharp, Trans. Ent. Soc. London, 1881, p. 527.

Perkins, Fauna Hawaiiensis, II, p. 246, 1900.

MOLOKAI: Kawela and Waikolu, 1925, in dead frond stems of *Cibotium menziesii* (Swezey and Bryan).

MAUI: Mahena, 1926, in *Cibotium menziesii* (Swezey).

HAWAII: On *Cibotium* (Swezey).

Proterhinus blackburni var. **bisignatus** Perkins

Perkins, Fauna Hawaiiensis, II, p. 246, 1900.

OAHU: Mt. Kaala, 1928, 1929, in bark of *Metrosideros* (Swezey, Williams) ; Mt. Tantalus, 1935, in bark of *Metrosideros tremuloides* (Swezey).

Proterhinus bridwelli Perkins

Perkins, Proc. Haw. Ent. Soc., IV, p. 350, 1920.

MAUI: Iao Valley, Sept., 1918, a single male on *Euphorbia hookeri integrifolia* (Bridwell).

Proterhinus bryani Perkins

Perkins, Bishop Museum, Bull. 14, p. 64, 1926.

NIHOA: On *Euphorbia*, 1923 (Bryan).

Proterhinus calliphyas Perkins

Perkins, Fauna Hawaiiensis, II, p. 224, 1900.

MAUI: Haleakala, 4000-5000 ft. Attached to *Alyxia olivaeformis* (Perkins).

Proterhinus convexiusculus Perkins

Perkins, Fauna Hawaiiensis, II, p. 232, 1900.

MOLOKAI: Kamiloloa, 1925, on *Coprosma* (Swezey and Bryan).

Proterhinus coprosmicola Perkins

Perkins, Proc. Haw. Ent. Soc., VII, p. 195, 1928.

OAHU: Pacific Heights, 1600 ft., on *Coprosma* (Bridwell).

Proterhinus cristatus Perkins

Perkins, Proc. Haw. Ent. Soc., VII, p. 510, 1931.

OAHU: Mt. Kaala, Feb. 9, 1930, from dead twig of *Broussaisia arguta* (Swezey) ; Haleauau, 1935 in *Broussaisia*, Mt. Kaala, 1938, in *Bidens* (Swezey).

Proterhinus deceptor Perkins

Perkins, Fauna Hawaiiensis, II, p. 245, 1900 ; F.H., III, p. 664, 1910.

OAHU: Widely distributed. On hau, *Gossypium tomentosum* and other trees (Perkins); Diamond Head, one on *Lipochaeta* (Timberlake); Ewa Coral Plain, one on *Euphorbia* (Bridwell); Palehua, on koa, Makua, 1925, on kukui, Kawaihapai, 1926, on kukui, Hauula, 1933, on *Scaevola* (Swezey); Kamokunui Valley, 1933, on kukui, Makapuu, 1934, on *Gossypium*, Mt. Olympus, 1935, on ohia ha (Swezey).

KAUAI: Kokee, Aug., 1925, a few specimens on *Myoporum sandwicense* and *Pipturus albidus*, a doubtful specimen on *Antidesma platyphyllum* (Swezey).

LANAI: On kukui and ohia lehua (Giffard).

MAUI: Waikapu Valley, 1924, on pamakani, Iao Valley, 1924, on *Bobea*, pamakani and *Pipturus*, Waihee Valley, 1926, on *Cyrtandra* (Swezey).

MOLOKAI: Puu Kolekole, 1929, on *Dubautia* (Swezey).

Proterhinus deceptor var. **major** Perkins

Perkins, Fauna Hawaiiensis, II, p. 246, 1900.

HAWAII: Kilauea, 1917, on *Hibiscadelphus giffardianus* (Swezey); Nauhi, 1931, on *Metrosideros polymorpha* (Swezey and Williams); Kilauea, 1925, on koa (Williams).

Proterhinus deceptor var. **clermontiae** Perkins

Perkins, Proc. Haw. Ent. Soc., VII, p. 198, 1928.

OAHU: Pauoa, July, 1917, on *Clermontia* (Bridwell).

Proterhinus deinops Perkins

Perkins, Fauna Hawaiiensis, II, p. 201, 1900; F.H., III, p. 657, 1910.

OAHU: Waianae Mts., 3000 ft. (Perkins); Mt. Kaala, 6 specimens, Feb., 1928, 7 specimens, Feb., 1930, 4 specimens, Jan., 1931, 5 specimens, Jan., 1932, 1 specimen, July, 1933, all in dead twigs of *Broussaisia arguta* (Swezey); Haleauau, 1935, same plant (Swezey).

Proterhinus denudatus Perkins

Perkins, Fauna Hawaiiensis, II, p. 203, 1900; F.H., III, p. 661, 1910.

OAHU: Both Mtn. ranges. In stems of staghorn fern (Perkins); Kamokunui Valley, 1933, swept from ferns (Swezey).

Proterhinus difficilis Perkins

Perkins, Fauna Hawaiiensis, II, p. 188, 1900.

KAUAI: Mountains (Perkins); Kokee, Aug., 1925, one specimen on *Antidesma platyphyllum* (Swezey).

Proterhinus dispar Sharp

Sharp, Trans. Ent. Soc. London, 1881, p. 528.

Trans. Dublin Soc., III, pl. V, fig. 41, 1885.

Perkins, Fauna Hawaiiensis, II, p. 243, 1900.

OAHU, MOLOKAI, LANAI: Attached to *Wikstroemia* (Perkins).

OAHU: Malamalama, 1925, Pacific Hts., 1926, Kahauiki, 1926, Lanihuli, 1928, Pauoa Flats, 1934, 1935, on *Wikstroemia foetida* (Swezey).

Proterhinus dubiosus Perkins

Perkins, Fauna Hawaïiensis, II, p. 187, 1900.

KAUAI: Halemanu, 4000 ft., Makaweli, 2000 ft. (Perkins); Kokee, Aug., 1921, 5 specimens on *Acacia koa*, Aug., 1925, 10 specimens on *Acacia koa* and a few on *Antidesma platyphyllum*, *Bidens cosmoides*, *Suttonia sandwicensis* and *Cryptocarya mannii* (Swezey).

Proterhinus echidna Perkins

Perkins, Fauna Hawaïiensis, III, p. 658, 1910.

OAHU: Mts. near Honolulu. On *Gouldia* (Perkins); Mt. Tantalus, 1933, one on *Metrosideros* (Swezey).

Proterhinus epichrysus Perkins

Perkins, Fauna Hawaïiensis, II, p. 218, 1900.

MAUI: Haleakala, 5000 ft. (Perkins); Kula pipe line, Olinda, 1926, in stems of *Rubus*, March, 1930, 5 specimens from *Cheirodendron gaudichaudii* (Swezey).

Proterhinus epimelas Perkins

Perkins, Fauna Hawaïiensis, II, p. 226, 1900.

MAUI: Olinda, 1927, one specimen on *Pelea* (Swezey).

Proterhinus epitretus Perkins

Perkins, Fauna Hawaïiensis, II, p. 229, pl. X, fig. 2, 1900.

LANAI: 2000-3000 ft. Attached to the stems of the fronds of the tree-ferns (Perkins).

MOLOKAI: Puu Kolekole, in *Cibotium chamissoi* (Swezey).

MAUI: Kula pipe line trail, 1926, 1935, in *Cibotium menziesii* (Swezey).

Proterhinus eugonias Perkins

Perkins, Fauna Hawaïiensis, II, p. 186, 1900.

KAUAI: Mts., 4000 ft. (Perkins); Kokee, Aug., 1925, several specimens on *Bobea mannii*, 4 from *Elaeocarpus bifidus*, 2 from *Osmanthus sandwicensis*, 2 from *Pipturus albidus*, 1 each from *Sideroxylon sandwicense*, *Cryptocarya mannii*, *Cyrtandra* sp. (Swezey).

Proterhinus eulepis Perkins

Perkins, Fauna Hawaïiensis, II, p. 188, 1900.

KAUAI: Mts., 4000 ft. (Perkins); Kokee, Aug., 1925, a few specimens on *Alyxia olivaeformis*, *Bidens cosmoides*, *Lobelia yuccoides* (Swezey).

Proterhinus euops Perkins

Perkins, Proc. Haw. Ent. Soc., IV, p. 348, 1920.

OAHU: Mt. Kaala, July, 1916, 12 examples on *Euphorbia* (Swezey).

Proterhinus euphorbiae Perkins

Perkins, Proc. Haw. Ent. Soc., IV, p. 349, 1920.

OAHU: Mt. Kaala, July, 1916, 3 females on *Euphorbia*; June, 1919, 2 females on *Euphorbia* (Swezey); Lanihuli, 1918, on *Euphorbia* (Swezey); Kukuiala Valley, 1933, on *Euphorbia* (Swezey).

Proterhinus exrucians Perkins

Perkins, Fauna Hawaiiensis, III, p. 662, 1910.

OAHU: Ewa Coral Plain, on *Sida* (Bridwell); many localities 1923 to 1935, on *Suttonia*, *Metrosideros*, *Bobea*, ohia ha, *Gouldia* (Swezey).

Proterhinus ferrugineus Perkins

Perkins, Fauna Hawaiiensis, II, p. 241, 1900.

HAWAII: 4000 ft. In the leaf-stems of tree-ferns (Perkins); Nauhi Gulch, 5000 ft, 1931, in *Cibotium* (Swezey and Williams); Kohala, 1925, in *Sadleria* (Williams).

Proterhinus fuscicolor Perkins

Perkins, Proc. Haw. Ent. Soc., IV, p. 353, 1920.

MAUI: Haleakala near Puu Niania, Aug., 1918, 26 examples on *Argyroxiphium virescens* (Swezey); same locality and plant, 1927 (Swezey).

Proterhinus gigas Perkins

Perkins, Fauna Hawaiiensis, II, p. 185, 1900.

KAUAI: 4000 ft. Under bark of *Cheirodendron* (Perkins); Kokee, Aug., 1925, 14 specimens from *Tetraplasandra waimaeae*, *Lobelia yuccoides* (Swezey); Kumuwela, 1928, on *Lobelia yuccoides* (Swezey).

Proterhinus impressiscutis Perkins

Perkins, Proc. Haw. Ent. Soc., IV, p. 350, 1920.

OAHU: Mt. Kaala, July, 1916, a single female on *Euphorbia* (Swezey); Mt. Kaala, 1923, on *Euphorbia* (Swezey).

Proterhinus impressiscutis var. **nudior** Perkins

Perkins, Proc. Haw. Ent. Soc., VII, p. 196, 1928.

OAHU: Lanihuli, 1918, 1928, Kuliouou, 1918, 1924, Kahauiki, 1933, Hauula, 1934, on *Euphorbia* (Swezey).

Proterhinus innotabilis Perkins

Perkins, Fauna Hawaiiensis, II, p. 242, 1900.

MAUI: Haleakala, 4000-5000 ft.; MOLOKAI (Perkins). LANAI: On kukui and ohia lehua (Giffard).

Proterhinus kahanae Perkins

Perkins, Proc. Haw. Ent. Soc., VII, p. 509, 1931.

OAHU: Kahana, Feb. 22, 1928, from dead twig of *Broussaisia arguta* (Swezey).

Proterhinus kamptarthrus Perkins

Perkins, Fauna Hawaiiensis, II, p. 199, 1900.

OAHU: Mt. Kaala, 1929, on *Coprosma*, Haleauau Valley, 1930, on *Coprosma* (Swezey).

Proterhinus laticollis Blackburn

Blackburn, Tr. Dublin Soc., III, p. 170, 1885.

Perkins, Fauna Hawaiiensis, II, p. 211, pl. IX, figs. 15, 15a; F.H., I, p. cxxv, 1913.

OAHU: Waianae Mts. On *Acacia koa* (Perkins).

Proterhinus longulus Sharp

Sharp, Trans. Ent. Soc. London, 1879, p. 97.

Perkins, Fauna Hawaiiensis, II, p. 208, 1900.

OAHU: Both ranges, in stems of ferns (Blackburn) (Perkins); many localities, in *Cibotium chamissoi* and *C. menziesii* (Swezey); Puu Kalena, 1932, in *Phegopteris polycarpa* (Swezey).

Proterhinus maculifer Perkins

Perkins, Fauna Hawaiiensis, II, p. 198, 1900.

KAUAI: Common generally (Perkins); Kokee, 15 examples, Aug., 1921, and 2 examples, Aug., 1925, from dead twigs of *Straussia mariniana* (Swezey), a few on *Gouldia elongata* and *Scaevola chamissoniana* (Swezey).

Proterhinus maurus Perkins

Perkins, Fauna Hawaiiensis, III, p. 658, 1910.

OAHU: Koolau range, 1800 ft., on *Pelea* (Perkins); Mt. Olympus, 1911, 1912, 1918, on *Suttonia lessertiana* var. (Swezey); Palolo, 1917, on *Suttonia* (Bridwell); Wailupe, 1915, Kaumuahona, 1909 (Swezey).

Proterhinus miricornis Perkins

Perkins, Proc. Haw. Ent. Soc., VI, p. 487, 1927.

KAUAI: Kokee, 1925, one specimen on *Bidens cosmoides* (Swezey); Kumuwela and Nualolo, 1932, 19 specimens on same plant (Swezey).

Proterhinus moribundus Perkins

Perkins, Proc. Haw. Ent. Soc., III, p. 251, 1916.

MOLOKAI: On the red-flowered native cotton tree (Perkins).

Proterhinus myrsineoides Perkins

Perkins, Fauna Hawaiiensis, III, p. 659, 1910.

OAHU: Haleauau Valley, 1930, 1932, on *Suttonia*, Puu Kaua, 1932, on *Suttonia*, Mt. Tantalus, 1934, on *Hibiscus* (Swezey).

Proterhinus myrsineus Perkins

Perkins, Fauna Hawaiiensis, III, p. 659, 1910.

OAHU: Mts. near Honolulu, 1500 ft. On (*Myrsine*) *Suttonia* (Perkins); Olympus, 1918, on *Suttonia*, Waimano, 1926, on *Suttonia*, Kanehoa, 1927, on *Suttonia*, Kawaihapai, 1928, on *Pelea*, Haleauau, 1930, on *Suttonia*, 1932, on *Sideroxylon* (Swezey).

Proterhinus nigricans Sharp

Sharp, Trans. Ent. Soc. London, 1879, p. 95.

Perkins, Fauna Hawaiiensis, II, p. 191, 1900.

KAUAI: Waialeale, 3000 ft. (Blackburn); Makaweli, 2000-3000 ft., Waimea 4000 ft. (Perkins); Kokee, Aug., 1921, four specimens on *Pipturus albidus*, and a few more in Aug., 1925 (Swezey).

Proterhinus oahuensis Perkins

Perkins, Fauna Hawaiiensis, II, p. 208, pl. X, fig. 4, 1900.

OAHU: Mts. near Honolulu, in hard tree trunks (Perkins).

Proterhinus obscuricolor Perkins

Perkins, Fauna Hawaiiensis, II, p. 202, 1900; F.H., III, p. 660, 1910.

OAHU: Mts. near Honolulu, attached to *Straussia* (Perkins); Woodlawn trail, 1927, on *Pelea* (Swezey).

Proterhinus obscurus Sharp

Sharp, Trans. Ent. Soc. London, 1878, p. 18.

Perkins, Fauna Hawaiiensis, II, p. 210, 1900; F.H., III, p. 663, 1910.

OAHU: Widely distributed. On various trees (Perkins); Mt. Olympus, one on *Pritchardia*, Mt. Tantalus on *Bobea* (Swezey); Mt. Kaala, 1929, on *Smilax*, 1931, one on *Broussaisia*, Haleauau, 1932, on *Urera*; Pacific Hts., 1932, on *Bobea* (Swezey).

Proterhinus obscurus var. **perobscurus** Perkins

Perkins, Fauna Hawaiiensis, III, p. 663, 1910.

OAHU: Mountains round Honolulu, abundant on *Perrottetia sandwicensis* (Perkins); Mt. Tantalus, 1925, 1929, 1933, on same tree (Swezey); Kahana, 1928, on same tree, Pupukea, 1933, on *Scaevola* and *Gouldia*, Hauula, 1933, on *Scaevola* (Swezey).

Proterhinus obscurus var. **elaecarpi** Perkins

Perkins, Fauna Hawaiiensis, III, p. 663, 1910.

OAHU: On *Elaeocarpus bifidus* (Perkins); Haleauau, 1928, 1932, Kaumuahona, 1928, Mt. Tantalus, 1933, Kukuiala, 1933, on same tree (Swezey).

Proterhinus obscurus var. **chryseis** Perkins

Perkins, Fauna Hawaiiensis, III, p. 663, 1910.

OAHU: Kaumuahona, 1917, on *Euphorbia clusiaefolia* (Bridwell); Lanihuli, 1919, Mt. Kaala, 1923, Kuliuouu, 1924, Woodlawn trail, 1927, Kahana, 1931, Kahauiki, 1933, Mt. Tantalus, 1934, Halawa, 1935, on *Euphorbia* (Swezey).

Proterhinus oscillans Sharp

Sharp, Trans. Ent. Soc. London, 1878, p. 18.

Perkins, Fauna Hawaiiensis, II, p. 210, 1900; F.H., III, p. 664, 1910; F.H., I, p. cxxv, 1913.

OAHU: Generally distributed. On *Acacia koa* (Perkins); Mt. Tantalus, 1909, 1934, 1935, Palehua, 1922, 1934, Kahauiki, 1926, 1933, Lanihuli, 1928, Waipio Rdg., 1929, Haleauau, 1930, Puu Kaua, 1932, all on *Acacia koa* (Swezey).

Proterhinus pachynemesis Perkins

Perkins, Fauna Hawaiiensis, II, p. 211, pl. IX, fig. 14, 1900.

OAHU: Kukuiala Valley, 1933, one on *Maba* and one on *Hibiscus* (Swezey).

Proterhinus persimilis Perkins

Perkins, Fauna Hawaiiensis, II, p. 224, pl. X, fig. 7, 1900.

MAUI: Iao Valley. Attached to *Wikstroemia* (Perkins).

Proterhinus phyllobius Perkins

Perkins, Proc. Haw. Ent. Soc., IV, p. 352, 1920.

OAHU: Mts. near Honolulu (Perkins); Mt. Olympus, Feb., 1912, leafminer in *Broussaisia arguta* (Swezey); Kaumu-

hona, July, 1916 (Bridwell); many places from Lanipo to Kahana, Hauula and Kawailoa, 1919 to 1938, same plant (Swezey).

Proterhinus pipturi Perkins

Perkins, Fauna Hawaiiensis, III, p. 665, 1910.

OAHU: Mts. near Honolulu, attached to *Pipturus albidus* (Perkins); Mt. Tantalus, 1925, Nuuanu Pali, 1925, Kahana, 1928, Haleauau, 1928, 1932, Kaluanui, 1938, all on *Pipturus* (Swezey).

Proterhinus podagricus var. *coprosmae* Perkins

Perkins, Proc. Haw. Ent. Soc., VII, p. 194, 1928.

OAHU: Mt. Kaala, 1920, a single specimen on *Coprosma* (Swezey).

Proterhinus platygonioides Perkins

Perkins, Fauna Hawaiiensis, III, p. 661, 1910.

OAHU: Kanehoa, 1927, on *Suttonia*, Mt. Kaala, 1930, on *Perrottetia*, Haleauau, 1932, on *Pipturus*, Hauula, 1934, on *Gouldia* (Swezey).

Proterhinus pteridis Perkins

Perkins, Fauna Hawaiiensis, II, p. 235, pl. IX, fig. 24, 1900.

MOLOKAI: 3000 ft. In the leaf-stalk of a species of *Pteris* (Perkins).

Proterhinus punctipennis Sharp

Sharp, Trans. Ent. Soc. London, 1881, p. 530.

Perkins, Fauna Hawaiiensis, II, p. 225, 1900.

MAUI: Haleakala, 4000-5000 ft. (Perkins); Kula pipe line, Olinda, 1926, 11 specimens on *Acacia koa* (Swezey).

Proterhinus pusillus Sharp

Sharp, Tr. Ent. Soc. London, p. 97, 1879.

Perkins, Fauna Hawaiiensis, II, p. 212, 1900.

OAHU: Mt. Tantalus, 1925, Manoa, on *Pelea*, Halona, 1933, on *Osmanthus* (Swezey).

Proterhinus pusillus var. *subpusillus* Perkins

Perkins, Fauna Hawaiiensis, III, p. 665, 1910.

OAHU: Widely distributed, attached to *Pelea* (Perkins); Kawaihapai, 1928, 1930, on *Pelea*, Piko trail, 1933, on *Pelea*, Haleauau Valley, 1932, one on *Sideroxylon* (Swezey).

Proterhinus robustus Blackburn

Blackburn, Tr. Dublin Soc., III, p. 171, 1885.

Perkins, Fauna Hawaiiensis, II, p. 205, 1900.

OAHU: Haleauau Valley, Waianae Mts., 1930, on *Ipomoea* and *Pteralyxia* (Swezey); Halona Valley, 1933, on lantana and *Pteralyxia* (Swezey); Kamokunui Valley, 1933, on fallen kukui branches (Swezey).

Proterhinus ruficornis Perkins

Perkins, Fauna Hawaiiensis, II, p. 200, 1900.

OAHU: Kahana, 1931, on *Euphorbia*, Pauoa Flats, 1934, on *Gouldia* (Swezey).

Proterhinus serricornis Perkins

Perkins, Fauna Hawaiiensis, II, p. 195, 1900.

KAUAI: Halemanu (Perkins); Kokee, Aug., 1925, one doubtful specimen on each of *Gouldia elongata* and *Bobea mannii* (Swezey).

***Proterhinus serricornis* var.**

KAUAI: Kokee, Aug., 1925, one large male on *Bidens cosmoides* (Swezey).

***Proterhinus setulosus* Perkins**

Perkins, Fauna Hawaiiensis, II, p. 192, 1900.

KAUAI: Mts., 2500-4000 ft. (Perkins); Kokee, Aug., 1925, four specimens from dead stems of fronds of *Cibotium chamissoi* (Swezey).

***Proterhinus sharpi* Perkins**

Perkins, Fauna Hawaiiensis, II, p. 213, pl. IX, fig. 17, 1900.

MAUI: Haleakala, 5000 ft. On undetermined fern (Perkins); Olinda, on *Cibotium*, 1926 (Swezey).

***Proterhinus simplex* Sharp**

Sharp, Trans. Ent. Soc. London, 1878, p. 17.

Perkins, Fauna Hawaiiensis, II, p. 206, 1900.

OAHU: In both Mtn. ranges. Mt. Tantalus, on various trees (Perkins).

***Proterhinus squamicollis* Perkins**

Perkins, Fauna Hawaiiensis, II, p. 201, 1900; F.H., III, p. 657, 1910.

OAHU: Koolau Range. On *Bobea elatior* (Perkins); Hauula, 1934, one from *Suttonia* (Swezey).

***Proterhinus squamicollis* var. *moestus* Perkins**

Perkins, Proc. Haw. Ent. Soc., VII, p. 197, 1928.

OAHU: Lanipo, 1924, on *Pelea* (Swezey).

***Proterhinus subangularis* Perkins**

Perkins, Fauna Hawaiiensis, III, p. 660, 1910.

HAWAII: Laupahoehoe, 1922, on *Straussia* (Swezey).

OAHU, MOLOKAI, MAUI, LANAI, HAWAII. Attached to *Straussia* (Perkins); Puu Kalena, 1929, on *Straussia*, Haleauau Valley, 1930, 1931, on *Straussia* (Swezey).

MAUI: Iao Valley, Mahena, 1926, on *Straussia* (Swezey).

MOLOKAI: Kawela, 1925, on *Straussia* (Swezey).

***Proterhinus subdeceptor* Perkins**

Perkins, Fauna Hawaiiensis, III, p. 664, 1910.

OAHU: Koolau Range, on *Alyxia olivaeformis* (Perkins); Moanalua, 1930, Kawaihapai, 1930, Haleauau, 1932, 1933, Poamoho and Marsh trail, 1933, Kawaihoa, 1934, all on *Alyxia* (Swezey).

***Proterhinus subplanatus* Perkins**

Perkins, Fauna Hawaiiensis, II, p. 205, 1900; F.H., III, p. 660, 1910.

OAHU: Koolau Range, attached to *Straussia* (Perkins); several localities on *Straussia* (Swezey); Haleauau, 1 on *Pteralyxia*, probably accidental (Swezey).

***Proterhinus swezeyi* Perkins**

Perkins, Proc. Haw. Ent. Soc., IV, p. 347, 1920.

OAHU: Mt. Olympus, Sept., 1917, a single male on *Pritchardia* (Swezey). This must have been a straggler, for later collections were all from *Broussaisia arguta*. Mt. Kaala, 1927, 1928, 1932, Kahana, 1927, 1928, 1931, Mt. Olympus, 1935, Lanihuli, 1928 (Swezey).

Proterhinus tantali Perkins

Perkins, Proc. Haw. Ent. Soc., IX, p. 87, 1935.

OAHU: Mt. Tantalus, May 20, 1934, from dead twigs of *Euphorbia* (Swezey).

Proterhinus validus Sharp

Sharp, Trans. Ent. Soc. London, 1881, p. 531.

Perkins, Fauna Hawaiiensis, II, p. 212, pl. IX, fig. 16, 1900.

MAUI: Haleakala, 4000-5000 ft. On *Acacia koa* (Perkins).

Proterhinus vestitus Sharp

Sharp, Trans. Ent. Soc. London, 1878, p. 16.

Trans. Dublin Soc., III, 1885, pl. V, figs. 37, 38.

Perkins, Fauna Hawaiiensis, II, p. 205, 1900; F.H., III, p. 662, 1910.

OAHU: Mts. near Honolulu (Blackburn) (Perkins). *Aleurites*, *Dracaena*, *Pipturus*, *Charpentiera*, *Pisonia* (Perkins); *Ipomoea bona-nox* (Bridwell), Nuuanu Pali, 1917, on *Cor-dyline terminalis* (Bridwell), Arboretum trail, Manoa, 1926, on *Bobea elatior* (Swezey), Nuuanu Pali, 1925, on *Pipturus*, Mt. Tantalus, 1930, on *Pipturus*, 1935, on *Hibiscus*, Mt. Olympus, 1936, on *Cyanea angustifolia* (Swezey).

Proterhinus vicinus Perkins

Perkins, Fauna Hawaiiensis, II, p. 212, 1900; F.H., III, p. 665, 1910.

OAHU: Waianae Mts., Mt. Tantalus. On *Acacia koa* (Perkins); Piko trail, 1933, on *Coprosma*, Kukuiala Valley, 1933, on *Coprosma* and *Gouldia*, Kukuiala Valley, 1936, one on *Euphorbia* (Swezey).

Proterhinus vulcanus Perkins

Perkins, Fauna Hawaiiensis, II, p. 236, 1900.

HAWAII: Kona and Kau, 3000-4000 ft. (Perkins); Nauhi and Keanakolu, Sept.-Oct., 1931, from *Coprosma* and dead stems of tree fern, one from *Acacia koa* (Swezey and Williams).

Proterhinus wikstroemiae Perkins

Perkins, Fauna Hawaiiensis, II, p. 195, 1900.

KAUAI: Mts., 4000 ft., attached to *Wikstroemia foetida* (Perkins); Kokee, Aug., 1925, 13 specimens from *Wikstroemia furcata* (Swezey).

Proterhinus xanthoxyli Perkins

Perkins, Proc. Haw. Ent. Soc., VII, p. 511, 1931.

OAHU: Haleauau, Waianae Mts., Feb. 9, 1930, from dead branch of *Xanthoxylum* (Swezey); Palikea, Waianae Mts., Feb. 3, 1935, from *Xanthoxylum* (Swezey).